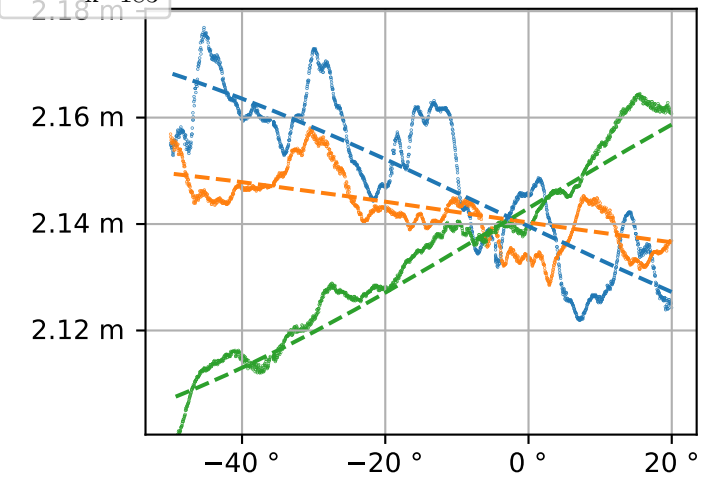
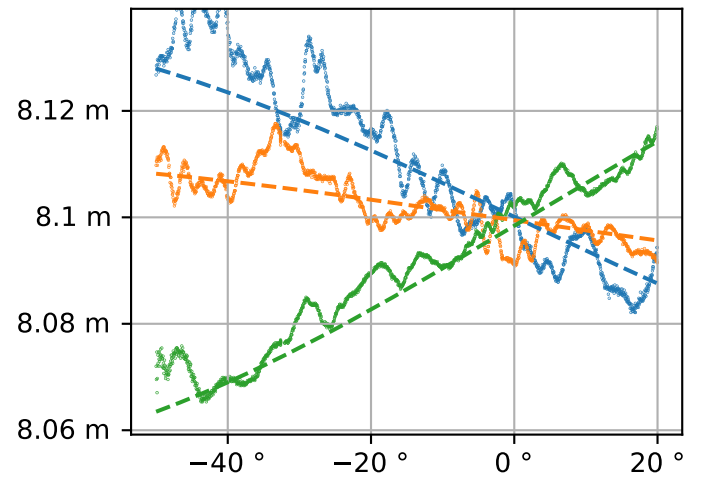


- k=12
- k=99
- k=183

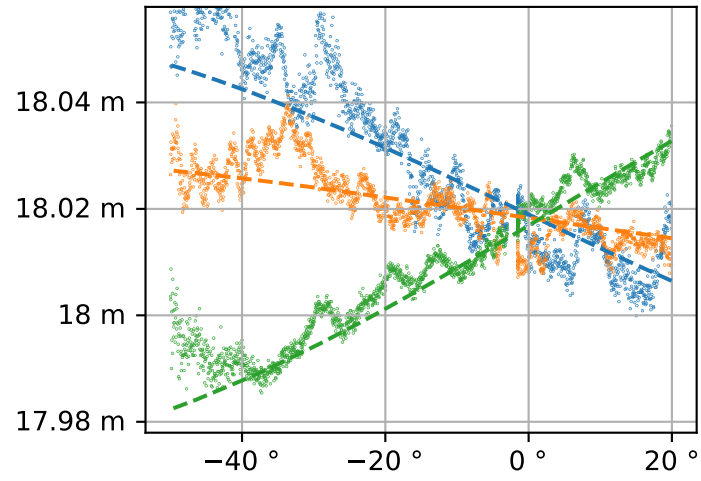
$\hat{R} = 2.1404\text{m}$   $\hat{\theta}_S = 87.7^\circ$   
 $\hat{\varepsilon} = -1.5\text{mm}$  RMSE=10.8mm



$\hat{R} = 8.0992\text{m}$   $\hat{\theta}_S = 91.2^\circ$   
 $\hat{\varepsilon} = -0.5\text{mm}$  RMSE=11.1mm



$\hat{R} = 18.0180\text{m}$   $\hat{\theta}_S = 91.5^\circ$   
 $\hat{\varepsilon} = -1.2\text{mm}$  RMSE=11.4mm



$\hat{R} = 32.2820\text{m}$   $\hat{\theta}_S = 85.9^\circ$   
 $\hat{\varepsilon} = -3.1\text{mm}$  RMSE=52.9mm

